

All COR ISO Recommendations

Latent Condition, Seismic and ISS

Friday, October 12, 2012 11:30:50 AM

Type	Rec #	ABU	Unit	Year (I/R)	LC or ISS Question #	LC Question ISS Question Seismic Area	Observation	Recommendation	Resolution	Duc Date	Assigned To	Status
ISS	1014	Cracking	Polymer Plant	2006	2A1	Use an alternative process or chemistry to completely eliminate hazardous raw materials, intermediates or by-products?	Hazardous material inventory could be eliminated by converting to a solid catalyst	Convert reactor to use a solid catalyst.	Although the solid catalyst would eliminate the need to inventory liquid phosphoric acid, we would still have to load hazardous phosphoric acid catalyst on a regular (once every few years) basis. Also, the cost of this change would be extremely large due to the requirement of a different/larger reactor as well as other new process equipment. Since a solid catalyst would not make the same product slate (ie, more pentamer at SOR, and more light poly at EOR), certain process vessels would have to be resized in order to meet the product slate required to meet customer demands.	12/31/2006	Watson, Christopher	Completed
ISS	1017	Cracking	Polymer Plant	2006	2D1	Substitute less hazardous final product solvents?	Currently use EC3050A as an oxidation inhibitor in the final product.	Consider an alternative chemical to inhibit oxidation.	At this time there are no safer/less hazardous alternatives to EC3050A that inhibit oxidation in the final product. I have confirmed this with our chemical supplier, Nalco.	12/31/2006	Watson, Christopher	Completed
Seismic	435	Cracking	Polymer Plant	2006		V-640	Fireproofing on supports has been removed.	Install fireproofing.	Based on DED review, fireproofing is not warranted since fire would cause failure or serious damage to supported equipment whether or not the structure was fireproofed. (Reference: Section 1721 - Fire Protection Manual)	11/1/2007	Tirona, Martin	Completed